

WATER/WASTEWATER TREATMENT PLANT SENIOR OPERATOR

DISTINGUISHING FEATURES

The fundamental reason the Water/Wastewater Treatment Plant Senior Operator position exists is to establish and promote teamwork and shared responsibility in all essential facets of the operation and in the maintenance of complex water and wastewater treatment systems, processes and facilities. Works to maximize efficient operation of 1.7 mgd and 12 mgd water reclamation facilities, along with an 11 mgd advanced water treatment and a 50 mgd surface water treatment facility. This classification operates in a lead capacity and works under general supervision. This position reports to the Water/Wastewater Treatment Plant Manager.

ESSENTIAL FUNCTIONS

Oversee the operation and maintenance of plant equipment and processes related to water, wastewater and advanced water treatment systems during an assigned shift. Direct assigned crew, prioritizing activities between the different treatment facilities and systems including the operation of valves, gates, pumps and machinery manually, locally in automatic mode or remote via computerized control strategy in order to maintain proper facility operation. Assume responsibility of all operations while on assigned shift.

Oversee and assist with sampling and analyzing of influents/effluents, source water/product water, feedwater and permeate in order to detect quality variations; interpret laboratory results, reading sheets, process test, computerized data and informational trends in order to identify variations in flow and water quality and make appropriate changes.

Oversee operation of assigned crew at a treatment facility in order to maintain day to day operation necessary to meet all required local, state and federal regulations pertaining to the production of reuse, ground injection and potable water and comply with prescribed operating and safety standards.

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Select, train, and evaluate employees on assigned shift.

Work with highly hazardous chemicals such as chlorine, sulfuric acid and sulfur dioxide following strict ADOSH and Water Resources departmental guidelines.

Ensure facility appearance is acceptable and work environment is safe, clean and orderly by directing activities such as washing equipment and machinery, painting, grounds maintenance and other custodial duties.

Conduct facility tours for individuals and groups ranging from technical interest engineers to elementary school children.

Attendance and punctuality are essential functions of this position.

MINIMUM QUALIFICATIONS

Knowledge, Skills, and Abilities

Knowledge of:

Laboratory practices required to properly evaluate treatment processes such as BOD, DO, pH, jar test, CL2 residual, turbidity, COD, color, hardness, TSS, TDS, fecal coliforms, and total coliforms.

Complete understanding of chemical/physical and biological processes used in water and wastewater treatment processes such as coagulation, flocculation, settling, sedimentation, filtration, disinfection and activated sludge.

Basic operational practices and principles of advanced water treatment processes such as microfiltration and reverse osmosis.

Experience in mechanical and electrical trouble shooting.

OSHA guidelines related to large water and wastewater treatment facilities.

Ability to:

Work rotating shifts, weekends, holidays and a call-out schedule.

Establish and maintain effective working relationships with co-workers, supervisors, and the general public.

Operate equipment used in a modern conventional water or wastewater treatment plant.

Determine processing requirements; sample the influent and effluent at various stages of processing and identify problems and ensure proper and efficient operation of the treatment plant

Operate a variety of equipment and machinery requiring continuous or repetitive arm and hand movements.

Enter data or information into a terminal, PC or other keyboard device.

Communicate effectively both verbally and in writing.

Prioritize schedule and work tasks and complete work within specified time periods and deadlines.

Move and lift heavy objects (100 pounds or more) both short and long distances.

Walk up and down stairs.

Perform laboratory procedures and maintenance functions requiring manual dexterity and precision measurements.

Supervise a technical staff; schedule, train and supervise employees; prepare and present effective performance evaluations.

Perform all routine operator functions.

Traverse up and down stairs and over rough terrain, and to perceive the full color spectrum.

Meet all State of Arizona guidelines and requirements applicable to water and wastewater treatment facilities.

Education & Experience

Any combination of training and experience equivalent to five (5) years of operation and maintenance of advanced, complex water and/or wastewater treatment facilities.

Must have experience with advanced computerized systems utilized in water and wastewater treatment facilities.

Supervisory experience preferred.

Technical training and/or college courses in water and/or wastewater technology, biology, chemistry, sanitary engineering or related field desirable.

No major driving citations in the last 39 months for all driving positions.

Must possess Grade III certifications from the Arizona Department of Environmental Quality in Waste and Wastewater Treatment.

Possession of Grade IV certifications from the Arizona Department of Environmental Quality in Water and Wastewater Treatment is desirable.

Experience with advanced water treatment systems such as microfiltration and reverse osmosis is highly desirable. Possession of Reverse Osmosis certification is desirable.

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(continued)

SPECIAL REQUIREMENTS

Ability to meet all State of Arizona OSHA guidelines and requirements applicable to water and wastewater treatment facilities. Possession of Grade III certifications from the Arizona Department of Environmental Quality in Water and Wastewater Treatment is required. Experience with advanced water treatment systems such as microfiltration and reverse osmosis is highly desirable. Possession of Reverse Osmosis certification and Grade IV certifications from the Arizona Department of Environmental Quality in Water and Wastewater Treatment is preferred. Attendance and punctuality are essential functions of this position.

STATUS: Unclassified DEPARTMENT: Water Resources